5. (a) $MRTS = \frac{K}{L}$ $\sigma = \frac{K/L}{K/L} = 1$ (b) $MRTS = 2$ $\frac{\Delta K/L}{2} = \infty$

8. (1) ✓

(2) $MRTS = \frac{MRL}{MRL} = \frac{2}{3}$

(3) $\frac{K/L}{3/2} = \infty$

9. (a) $\lambda q < (\lambda L^{\alpha} + \lambda K^{\alpha})^{\beta}$ ⇒ 遞增

(b) $\lambda \ln q = \lambda 5 + 0.5 \lambda \ln L + 0.2 \lambda \ln K$ ⇒ 固定

(c) $\lambda q \{ \text{Min} \{ \lambda aL, \lambda bK \} \}^{a}$

$\Rightarrow \lambda^{a} \{ \text{Min} aL\ bK \}^{\alpha}$

⇒ 遞減